

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. - 15. (Canceled)

16. (Currently Amended) An apparatus comprising:

a first transistor to sense radiation;  
a load transistor having a gate coupled to an output of the first transistor and having an output to provide a signal whose digital state depends on a state of the first transistor; ~~and~~  
a current mirror coupled to the first transistor and the load transistor; and  
an adjustable voltage source coupled to the first transistor to adjust a threshold voltage level of the first transistor.

17. (Canceled)

18. (Currently Amended) The apparatus of claim ~~17~~ 16 wherein the first transistor forms part of a radiation-measuring circuit and the adjustable voltage source is external to the radiation-measuring circuit.

19. (Currently Amended) The apparatus of claim ~~17~~ 16 wherein the first transistor forms part of a radiation-measuring circuit and the adjustable voltage source is integrated into the radiation-measuring circuit.

20. (Original) The apparatus of claim 16 including a resistive element coupled to the output of the first transistor and a first side of the current mirror.
21. (Original) The apparatus of claim 20 wherein the resistive element includes a transistor.
22. (Original) The apparatus of claim 20 wherein the resistive element includes a resistor.
23. (Currently Amended) The apparatus of claim 20 wherein the current mirror includes pMOS transistors, the radiation sensor includes a pMOS transistor and each of ~~the radiation sensor,~~ the resistive element and the output load includes an nMOS transistor.
24. (Currently Amended) The apparatus of claim 20 wherein the current mirror includes nMOS transistors, the radiation sensor includes an nMOS transistor and each of ~~the radiation sensor,~~ the resistive element[[,]] and the output load includes a pMOS transistor.